

About composition of hydrocarbon fluids and processes of oil formation in productive complexes of Romashkino oil field

Kayukova G., Feoktistov D., Gabdrakhmanov D., Kosachev I.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© SGEM 2017. All Rights Reserved. In connection with finding - out of a question about probable feeding of deposits by hydrocarbons, acting from the basement, the results of integrated geologicalgeochemical research of the dynamics of variation of chemical and geochemical parameters of oils and bitumen from the rocks of sedimentary cover and basement in the zones of probable inflow of hydrocarbons at the central areas of the Romashkino oil field are presented in this work. Also the results of researches on comparative studying of changes in organic matter structure from rocks of oil-maternal Domanik adjournments of Upper Devonian and organic matter from the rocks of the basement in conditions simulating hydrothermal processes are presented also. As a result of the studies, an estimation of the oil-generating potential of the oil-shifting depositions of the sedimentary cover and rocks of the crystalline basement was made, the distinctive features of the hydrocarbon composition of the fluids studied under natural conditions and model experiments were revealed, and genetic relationships between the oils and organic matter of individual productive complexes were established. All this made it possible to draw conclusions about possible sources of hydrocarbon generation and modern processes of oil reservoir reformation.

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Keywords

Basement, Composition of fluids, Geochemical parameters, Hydrothermal processes, Oil, Organic matter, Rocks of sedimentary covers

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